

CLAIM AMENDMENTS

1. (currently amended) A biopsy needle for obtaining a sample of tissue within the pleural cavity of a patient, said biopsy needle comprising

an outer tube having a closed distal end, a proximal end and a central canal therethrough, said distal end having a pair of oppositely disposed peripheral openings formed in said outer tube proximate the distal end thereof,

an inner movable member interfitted within said outer tube, said inner movable member having a distal end adapted to be located at about the distal end of said outer tube and a proximal end accessible to a user at the proximal end of said outer tube, said inner movable member being axially movable within said outer tube,

a pair of articulating members affixed to the distal end of said inner movable member, said articulating members being movable between a retracted position within said outer tube and an extended position where said articulating members extend outwardly through said peripheral openings in said outer tube, said pair of articulating members each having an operative surface facing the proximal end of said biopsy needle when in said extended position, wherein said operative surface of one of said articulating members has a brush edge thereon, whereby manipulation of said biopsy needle causes said operative surfaces to contact the pleural cavity of a patient to obtain tissue samples therefrom.

2. (previously presented) A biopsy needle as defined in claim 1 wherein said articulating members are moved between said retracted position and said extended position by manipulation of said proximal end of said inner movable member.

3. (previously presented) A biopsy needle as defined in claim 2 wherein said proximal end of said inner movable member extends axially outwardly from said proximal end of said outer tube so as to allow the manipulation of said proximal end of said inner movable member.

4. (previously presented) A biopsy needle as defined in claim 3 wherein said proximal end of said inner movable member is formed as an enlarged handle for

manipulation by a user.

5. (previously presented) A biopsy needle as defined in claim 1 wherein said closed distal end of said outer tube is pointed.

6. (original) A biopsy needle as defined in claim 1 wherein said outer tube has a longitudinal axis and said at least one articulating member moves outwardly to a position approximately 90 degrees to the longitudinal axis of said outer tube.

Claims 7-10. (canceled)

11. (currently amended) A biopsy needle as defined in claim 1 wherein ~~one of said articulating members has a cutting edge thereon and the operative surface of the other of said articulating members has a brush cutting edge formed thereon.~~

12. (currently amended) A biopsy needle as defined in claim 1 wherein for obtaining a sample of tissue within the pleural cavity of a patient, said biopsy needle comprising

an outer tube having a closed distal end, a proximal end and a central canal therethrough, said distal end having a pair of oppositely disposed peripheral openings formed in said outer tube proximate the distal end thereof,

an inner movable member interfitted within said outer tube, said inner movable member having a distal end adapted to be located at about the distal end of said outer tube and a proximal end accessible to a user at the proximal end of said outer tube, said inner movable member being axially movable within said outer tube, wherein said closed distal end of said outer tube has an internal elongated opening, and said inner movable member has a needle shaped end that movably fits within said internal elongated opening to stabilize the axial movement of said inner movable member with respect to said outer tube

a pair of articulating members affixed to the distal end of said inner movable member, said articulating members being movable between a retracted position within said outer tube and an extended position where said articulating members extend outwardly through said peripheral openings in said outer tube, said pair of articulating members each having an

operative surface facing the proximal end of said biopsy needle when in said extended position whereby manipulation of said biopsy needle causes said operative surfaces to contact the pleural cavity of a patient to obtain tissue samples therefrom.

13. (currently amended) A biopsy needle for obtaining a sample of tissue within the pleural cavity of a patient, said biopsy needle comprising

an outer tube having a closed distal end, a proximal end and a central canal therethrough, said distal end having a pair of peripheral openings formed in said outer tube proximate the closed distal end thereof,

an inner movable member interfitted within said outer tube, said inner movable member having a distal end adapted to be located at about the distal end of said outer tube and a proximal end accessible to a user at the proximal end of said outer tube, said inner movable member being axially movable within said outer tube,

an end tube affixed to the distal end of said inner movable member, said end tube being T-shaped having a pair of upper legs, said end tube having two articulating members movable affixed thereto and extending from said upper legs of said T-shaped end tube, movable affixed thereto and extending from said end tube, said articulating members being movable between a retracted position within said outer tube and an extended position where said articulating members extend outwardly through said peripheral openings in said outer tube, said articulating members each having an operative surface facing the proximal end of said biopsy needle when in said extended position whereby manipulation of said biopsy needle causes said operative surfaces to contact the pleural cavity of a patient to obtain tissue samples therefrom.

14. (canceled)

15. (currently amended) A biopsy needle as defined in claim 13 for obtaining a sample of tissue within the pleural cavity of a patient, said biopsy needle comprising

an outer tube having a closed distal end, a proximal end and a central canal therethrough, said distal end having a pair of peripheral openings formed in said outer tube proximate the closed distal end thereof,

an inner movable member interfitted within said outer tube, said inner movable member having a distal end adapted to be located at about the distal end of said outer tube and a proximal end accessible to a user at the proximal end of said outer tube, said inner movable member being axially movable within said outer tube,

an end tube affixed to the distal end of said inner movable member, wherein said end tube has an axial needle shaped end extending therefrom and said distal end of said outer tube has an elongated recess formed therein, said axially extending needle of said end tube adapted to slidingly interfit within said elongated needle to guide the axial movement of said inner movable member, said end tube having two articulating members movable affixed thereto and extending from said end tube, said articulating members being movable between a retracted position within said outer tube and an extended position where said articulating members extend outwardly through said peripheral openings in said outer tube, said articulating members each having an operative surface facing the proximal end of said biopsy needle when in said extended position whereby manipulation of said biopsy needle causes said operative surfaces to contact the pleural cavity of a patient to obtain tissue samples therefrom.

16. (previously presented) A biopsy needle as defined in claim 13 wherein said proximal end of said outer tube is sealed by an outer tube cover and wherein said proximal end of said inner movable member passes through the outer tube cover.

17. (currently amended) A biopsy needle as defined in claim 16 wherein said outer tube cover is threadedly affixed to the proximal end of said outer tube.

18. (original) A biopsy needle as defined in claim 16 wherein said outer tube cover has outwardly extending wings extending outwardly therefrom.

19. (previously presented) A biopsy needle as defined in claim 13 wherein said proximal end of said inner movable member is enlarged to form a handle to allow manipulation of said inner movable member by a user.

20. (previously presented) A biopsy needle as defined in claim 13 wherein said

inner movable member includes a stop means to limit the axial movement of said inner movable member outwardly from said outer tube.

21. (previously presented) A biopsy needle as defined in claim 20 wherein said stop means comprises a enlarged diameter member affixed to said inner movable member that engages said outer tube cover when said inner movable member is moved outwardly with respect to said outer tube.

Claims 22-23. (canceled)

24. (currently amended) A biopsy needle as defined in claim 13 for obtaining a sample of tissue within the pleural cavity of a patient, said biopsy needle comprising an outer tube having a closed distal end, a proximal end and a central canal therethrough, said distal end having a pair of peripheral openings formed in said outer tube proximate the closed distal end thereof,

an inner movable member interfitted within said outer tube, said inner movable member having a distal end adapted to be located at about the distal end of said outer tube and a proximal end accessible to a user at the proximal end of said outer tube, said inner movable member being axially movable within said outer tube,

an end tube affixed to the distal end of said inner movable member, said end tube having two articulating members movable affixed thereto and extending from said end tube, said articulating members being movable between a retracted position within said outer tube and an extended position where said articulating members extend outwardly through said peripheral openings in said outer tube, said articulating members each having an operative surface facing the proximal end of said biopsy needle when in said extended position, wherein said at least one of said articulating members has an operative surface having a brush edge thereon whereby manipulation of said biopsy needle causes said operative surfaces to contact the pleural cavity of a patient to obtain tissue samples therefrom.

25. (currently amended) A biopsy needle as defined in claim 24 13 wherein one of said articulating member has a cutting edge thereon and the operative surface of the other of said articulating member members has a brush cutting edge formed thereon.

26. (previously presented) A biopsy needle as defined in claim 13 wherein said outer tube has a flexible tube affixed at about the proximal end thereof, said flexible tube communicating with the interior area of said outer tube and having a connector affixed to a free end of said flexible tube to remove fluids from a patient.

27. (currently amended) A method of obtaining a sample of tissue from the pleural cavity of a patient, said method comprising the steps of:

providing a needle having a closed distal end with at least one articulating member having a brush edge formed thereon movable between a retracted position to an extended position extending outwardly from the needle proximate to the closed distal end of the needle,

inserting the needle into a patient such that the distal end of the needle is located within the pleural cavity of a patient,

extending the at least one articulating member outwardly from the needle,

adjusting the location of the needle to cause the articulating member to contact the parietal pleura of a patient,

rotating the needle to move the at least one articulating member to pick up a sample of the pleura onto the at least one articulating member,

retracting the at least one articulating member to the retracted position,

removing the needle from the patient to collect a sample of the pleura adhered to the at least one articulating member.

28. (canceled)

29. (previously presented) A method of obtaining a sample of tissue from the pleural cavity of a patient as defined in claim 27 wherein said step of providing a needle comprises providing a needle having a retracted position wherein said at least one articulating member is fully contained within the needle.

30. (previously presented) A method of obtaining a sample of tissue from the pleural cavity of a patient as defined in claim 27 wherein said step of providing a needle